

## 1. Radio Equipment (UWB) : G/TBT/N/EU/1037 dated 12 December 2023

<b>Notifying Member</b>	European Union
<b>Type of Notification</b>	Regular Notification
<b>Economic relevance</b>	High “ USD 8.36 Mn ”
<b>Technical Relevance</b>	Technical-New
<b>Date of Entry into Force</b>	April 2024

### Proposal in brief

- a. The European Commission has issued a draft Commission Implementing decision (EU) on the **harmonization of radio spectrum for equipment using Ultra-Wideband (UWB) technology** in the Union.
- b. The Framework for UWB in the 6-8.5 GHz band: fixed outdoor usage for location tracking applications, general vehicular applications, and Higher-power indoor -only applications.
- c. Implementing Decision (EU) 2019/785 is amended as follows:
  - In Article 2, point (i) is replaced by the following:  
Total radiated power spectral density (TRPsd) means the average of the mean radiated power spectral density (e.i.r.p) values measured with a resolution of 15 degrees over a sphere around the UWB device (generic or vehicular use) or around the use case-related scenario (as indirect emissions for UWB devices determining materials)
  - Article 3 is replaced by the following:  
Within 6 months after this decision takes effect, Member States shall designate and make available the radio spectrum, on a non-interference and non-protected basis, for equipment using ultra -wideband technology provided that such equipment meets the conditions set out in the Annex and it is used indoor or, if it is used outdoors, it is not attached to a fixed installation , a fixed infrastructure or a fixed outdoor antenna.
- d. The said draft specifies technical requirements for the UWB devices to be used in the following equipment defining maximum mean peak spectral density and maximum peak power for different frequency ranges:
  - a. Generic Ultra-wideband (UWB) usage.
  - b. Location tracking System Type 1 (LT1)
  - c. UWB devices installed in Motor and Railway Vehicles
  - d. Specific technical requirements for vehicular access systems using trigger-beforetransmit.
  - e. Technical requirements for other vehicular applications in 6-8.5 GHz band.
  - f. UWB onboard aircraft
  - g. Contact and Non-Contact based material sensing devices

### Analysis

- a. EU has proposed to harmonise the radio spectrum for equipment using UWB technology. The said regulation specified the technical requirements for UWB devices installed in different vehicles and onboard aircrafts.